Fig. 1

100

125

Your Rental Queue

Movies you have out

1. AAA
2. BBB
3.CCC

105

106

Movies in your Queue

111

Priority	Title	Availability	Type
112 ⟶ 1.	DDD	Now	P
2.	EEE	Now	A
3.	KKK	Not released	L
4.	FFF	Short wait	M
112' 5.	UUU	Long wait	I

110

120

Queue- keeper
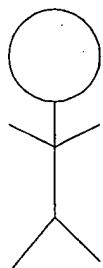
115

Auto-notify/recommend/ship options selected:
· When queue is complet ely empty

· Send notice and autoship

· a movie automatically recomended by us based o n prior ratings

116

117   *Setup autonotify + auto*
       select/ship options

118

*Please note
there is an
additional fee of _ will be
charged to your account
per month/ per selection
shipped

Fig. 2

200
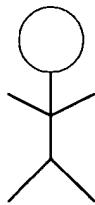
Preferences set up for auto notify autoship + autorecommend

Do you want us to automatically notify you when your rental queue is empty (or near empty) and automatically select and ship a title to you? If so please fill out the information below, then simply select "finish" to go back to your rental queue. Otherwise hit "cancel"

210

---

① When should I review your rental Queue?

- ☑ Queue is completely empty
- ☐ Queue has space [2] Movies left
- ☐ A selection I would like is available
- ☐ x days have gone by

220

---

② What do you want me to do when the queue should be replenished?

- ☐ Send Notice only ☐ 1 day
- ☐ Notice + wait for ☐ My confirmation ☐ 2 day
- ☑ Send Notice and auto- ship ☐ ...day
- ☐ No notice- autoship
- ☐ If I don't respond in 3 days send notice again

230

What types of titles should I use to replenish the selection queue?

③

- ☐ Auto recommend
- ☐ New releases
- ☐ Genre (select)
- ☑ Collection
- ☐ Top 100
- ☐ Critic choices

  - ☐ ·Prior rating
  - ☐ ·Prior rentals

240

When Q keeper finds a better title, I want him to... ④

- ☑ Replace the next item to be shipped.
- ☐ Put it in the Queue in order after my current choices.
- ☐ Put it in my Queue as tentative but do not ship unless I confirm

250

☑ Defaults

| **Finished** 295 | **Cancel** 296 |

300

Fig. 3A

310

To: <u>John Doe</u>

From: xxx Movie rentals

Re: Notice

Q keeper ☺

Dear customer,
This is a courtesy notice to inform you that:

| 1 |

320

Your shipping queue is empty or near empty;
<u>click here to see its status</u>

(have you considered this title:...?)

| 2 |

330

Per your request we are placing a new title in your queue for shipping.

The title is EEE <u>(Click here for more details)</u> and will be shipped automatically to you approximately _ day unless we've been otherwise notified.

335 ——— Let us know you rate our selection by clicking here: <u>feedback</u>

340 ——— If you wish to cancel this auto selection/ autoship item, please click <u>here</u>.

300

Fig. 3B

310

To: <u>John Doe</u>

From: xxx Movie rentals

Re: Notice

Q keeper ☺

Dear customer,
This is a courtesy notice to inform you that:

320
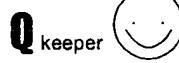
| 1 | **Per your request we are placing a new title in your queue for shipping.** |

The title is <u>EEE</u> <u>(Click here for more details)</u>.

330

| 2 | Please confirm that you wish this title shipped automatically to you by clicking here: <u>confirm</u>. |

335

Let us know you rate our selection by clicking here: <u>feedback</u>

340

If you wish to cancel this auto selection/ autoship item, please <u>click here</u>.

Fig. 3C

Notification confirmation

Here is the section we have made for you:

Title	Description	Auto- select option
EEE	-----------	Auto recommended by us based on your prior choices + rating

☐ Go and ship

☐ Do not ship

☐ Do not ship

Finished/refund

Please rate your **Q** keeper!

☆ ☆☆☆

(Feedback)

Queue Monitor Auto- notify - Auto- ship - Process

Fig. 4

400

405 — Subscriber preferences set up for **Q keeper**

410 — Monitor Queue

415 — Rating survey required

430 — trigger event?

No

Yes

435 — Determine auto recommendations

420 — Present rating schedule

Yes

425 — Tabulate & Create Profile

440 — Notice Req'd?

NO

Yes

455 — Auto- notice prepare

460 — Auto- notice prepare

445 — Adjust queue

465 — Notice only?

yes

495 — Auto- notice prepare

Auto- ship

450

No

475 — Delay

470 — Reply required

No

480 — Wait n days

Yes

Yes

490 — Mark for re-notice based on rules

485 — Recieve confirmation or modification within _ days

No

Fig. 5

Subscriber setup for autonumber auto- notify auto- ship

500

510 — Auto notify
Auto ship option selected

520 — Select trigger events to activate
queue monitoring/refresh

530 — Select type of movie to be
considered for queue or shipped in
response to trigger events

540 — Select type of notices/action and
rules to be followed in queue
monitoring/ and auto-notify auto-ship

550 — Select Replenishment Options
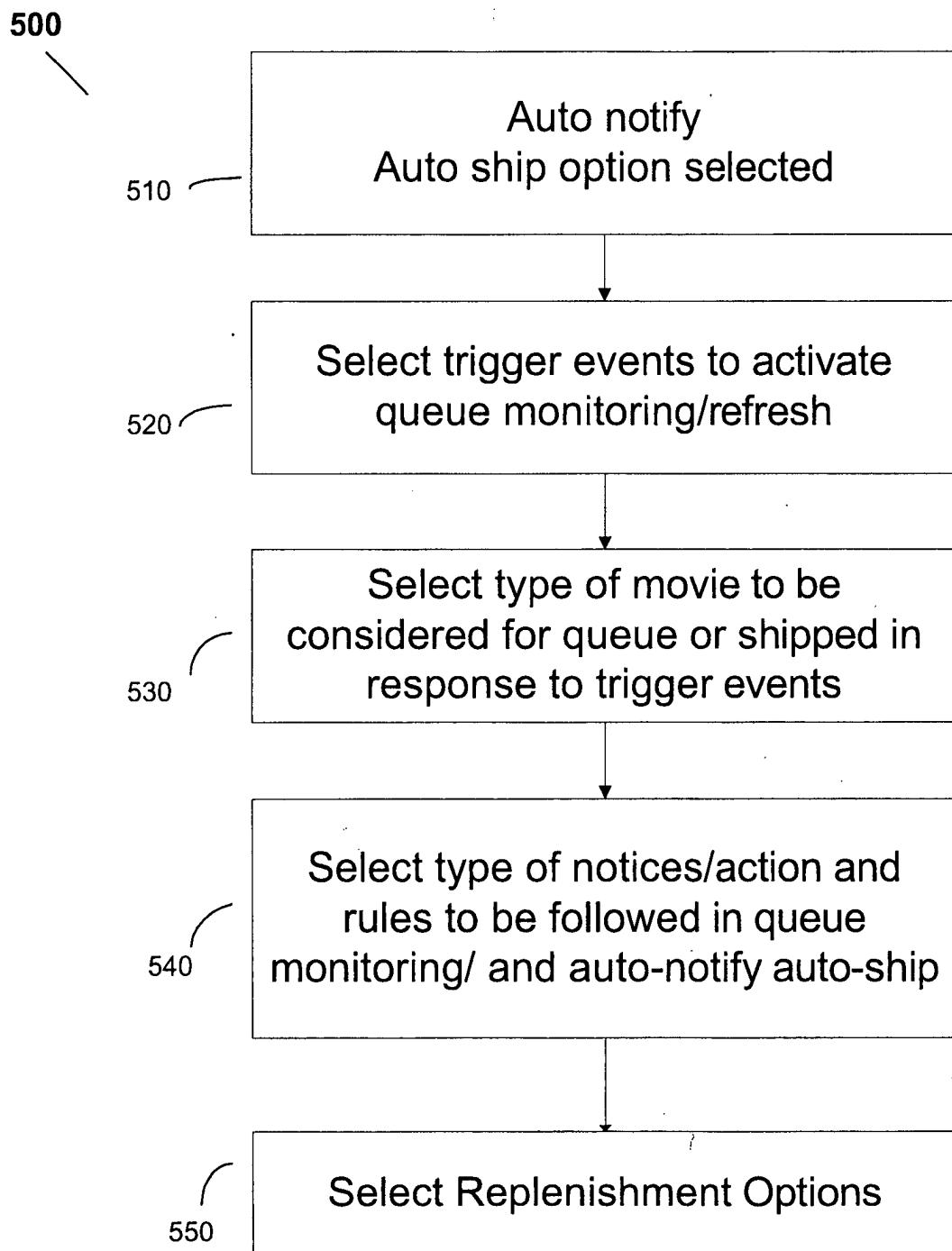
Fig. 6

Auto- recommended survey for subcriber profiling

600

610 | Present movie item

620 | Capture ratings

630 | Sufficient samples collected?

No

Yes

640 | Generate subscriber preferences profile

Fig. 7

Client devices

Desktop | Laptop | **PDA** | TV | receiver

| S_1 | S_2 | S_3 | S_4 | S_5 | S_n |

Network

702

705

Delivery/Return Route
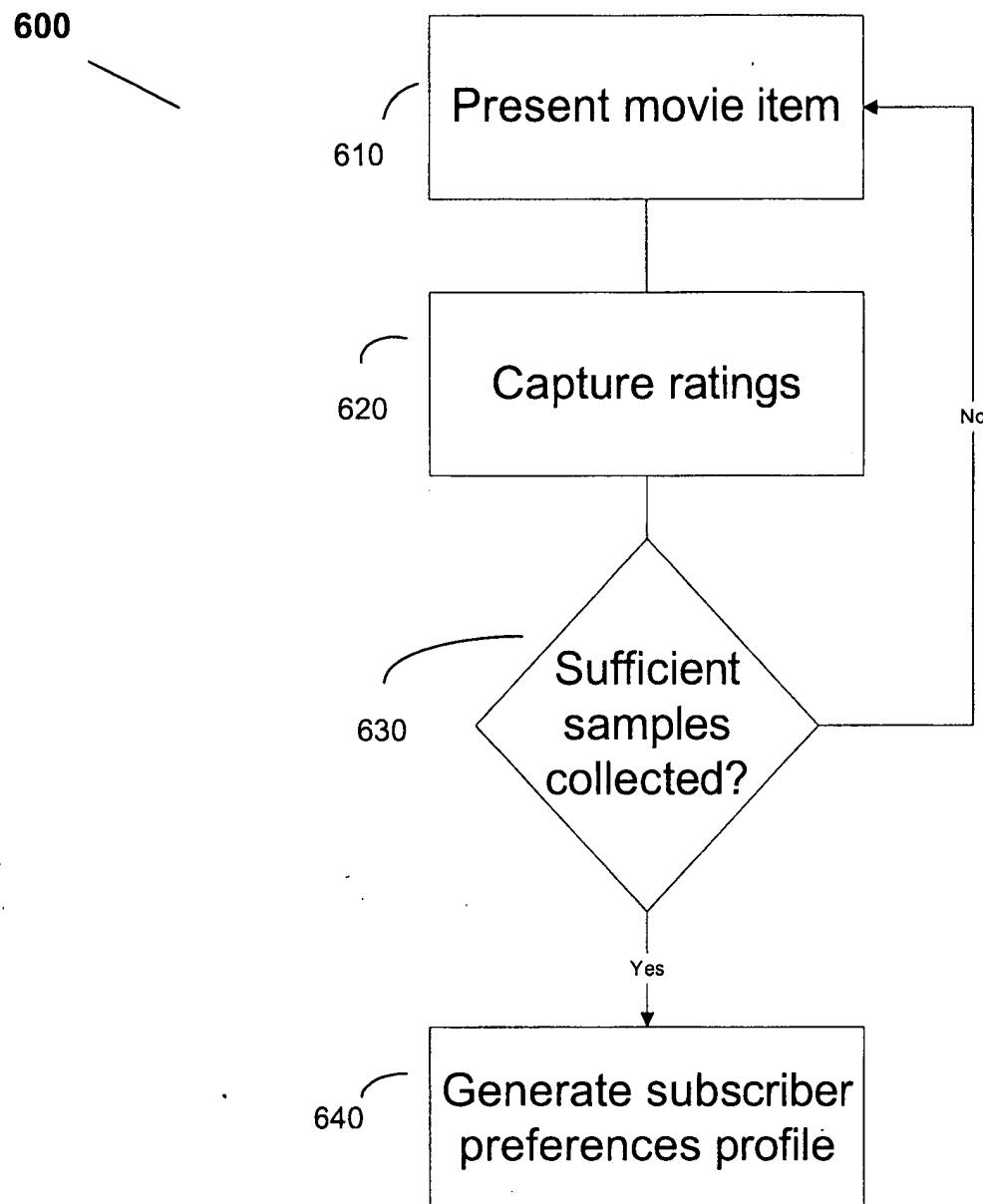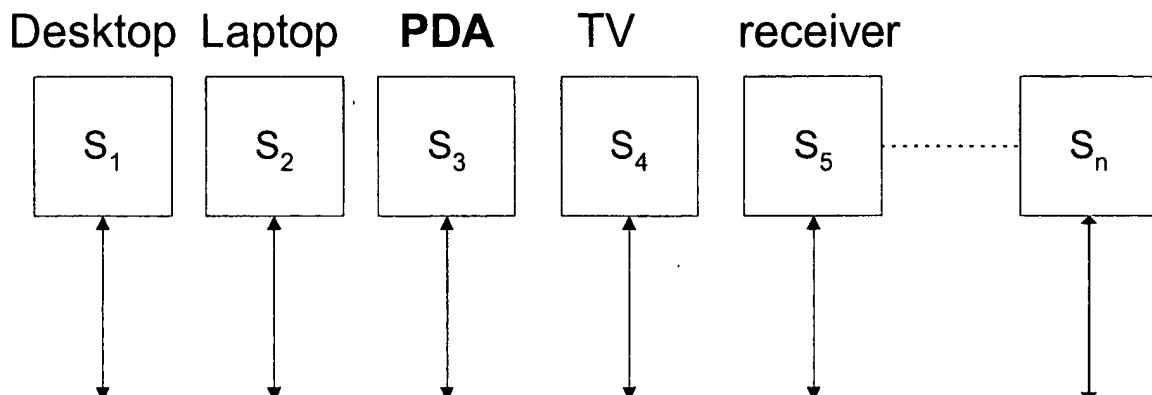
Service provider Server

| Item Search Selection 721 | Feedback system 729 |

| Recommender 725 | Media Processing 725 | Notification system 728 |

| Subcriber profiles 724 | Subscriber delivery Queue 723 | Subscriber Queue Control 727 |

| Subscriber Exchange System 730 | Queue control monitor 726 | Auto-Exchange System 731 |

720
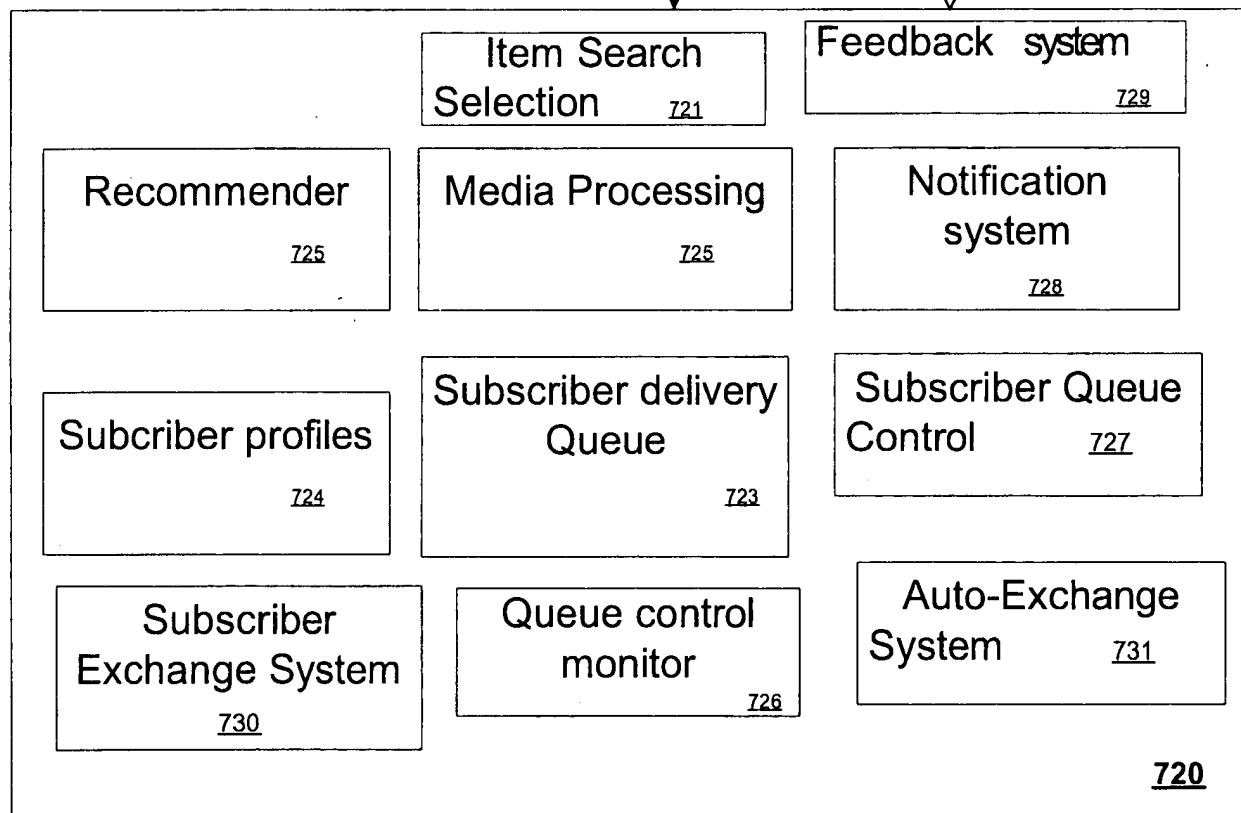
Subscriber Based Exchange system operation

Fig 8

800

810

Designate pool of exchange items

850

Place bid?

820

Is title available?

No

Yes

865

Yes

Collect bid info from requester

Biddable copy | uncommited copy

830

Show details of subscriber reserve requirements

820

Place title in requester queue

840

Offer accepted?

Yes

845

Show details of subscriber reserve requirements

860

Does holder wish to make copy available for bidding?

Yes

865

Collect reserve requirements

Figure 9

900

Auto- exchange system

910 — Identify + locate title A in subscriber 1 queue position

920 — Identify + locate title A in subcriber 2 queue position

930 — Identify access rankings for title A for subcriber 1 + subcriber 2

940 — Prompt subscriber 2 for potential swap

950 — Auto-barter; present inducements to subcriber #1

945 — Update queues in response to any swaps

960 — Accepted?

Yes

NO